

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

ORDER NO. 86-37

NPDES NO. CA0029050

WASTE DISCHARGE REQUIREMENTS FOR:

MARE ISLAND NAVAL SHIPYARD
HYDRAULIC MAINTENANCE DREDGING AND SPOILS DISPOSAL
MARE ISLAND, SOLANO COUNTY

The California Regional Water Quality Control Board, San Francisco Bay Region (hereinafter called the Board) finds that:

1. Mare Island Naval Shipyard, hereinafter called the discharger, performs maintenance dredging in Mare Island Strait. The boundary of the maintenance dredging extends from the Highway 37 bridge on the north to Carquinez Strait on the south as shown in Attachment A. The maintenance dredging referred to in this Order is separate from the maintenance dredging of the main channel in Mare Island Strait conducted by the U. S. Army Corps of Engineers.
2. About 600,000 cubic yards per year of material is dredged primarily by hydraulic dredging methods. The dredged material is disposed of in seven disposal ponds totalling about 845 acres. These ponds are located above mean higher high water on the western side of Mare Island as shown in Attachment A. Depending on the location of the dredging operation, dredged material is transported to the disposal ponds via one of five permanent pipelines. When the hydraulic dredge is being repaired or overhauled, a clamshell dredge is used and the dredged material is trucked to the designated land disposal pond.
3. A maximum of 2.5 million gallons per day of decanted water from the disposal ponds is discharged to the marsh area between the disposal ponds and San Pablo Bay. The discharge is controlled by weir structures at seven points located along the west side of the disposal ponds as shown in Attachment A.
4. The discharge is presently governed by Waste Discharge Requirements, Order No. 78-37 which allows discharge from five of the points mentioned in Finding 3. The discharger submitted a letter dated June 17, 1981 amending their operations to include two additional discharge points (E-6 and E-7) to allow for better pond flow control.
5. The Regional Board adopted a revised Water Quality Control Plan for the San Francisco Bay Region (Basin Plan) on July 21, 1982. The Basin Plan contains water quality objectives for San Pablo Bay.

6. The beneficial uses of San Pablo Bay and contiguous water bodies are:
 - a. Water contact recreation
 - b. Non-contact water recreation
 - c. Wildlife Habitat
 - d. Preservation of Rare and Endangered Species
 - e. Estuarine Habitat
 - f. Fish migration and spawning
 - g. Industrial service supply
 - h. Navigation
 - i. Commercial and Sport Fishing
 - j. Shellfish Harvesting
7. The Basin Plan prohibits the discharge of any wastewater which has particular characteristics of concern to beneficial uses at any point which does not receive a minimum initial dilution of at least 10:1 or into any nontidal water or deadend slough or similar confined water areas or their immediate tributaries. The discharge into the marsh does not receive an initial dilution of 10:1.
8. The Board finds that the discharge of waste from the discharger contains only negligible amounts of pollutants and has no particular characteristics of concern to beneficial uses. Therefore, the Basin Plan prohibition does not apply to this waste discharge.
10. Effluent limitations and toxic effluent standards established pursuant to Section 301, 304, and 307 of the Clean Water Act and amendments thereto are applicable to the discharge.
11. Effluent limitation guidelines requiring the application of best available technology economically achievable (BAT) for this point source category have not been promulgated by the U.S. Environmental Protection Agency. Effluent limitations in this Order are based on the Basin Plan, State plans and policies, current operational performance, and best engineering judgement. The limitations are considered to be those attainable by BAT, in the judgement of the Board.
12. The issuance of waste discharge requirements for this discharge is exempt from the provisions of Chapter 3 (commencing with Section 21000 of Division 13) of the Public Resources Code (CEQA) pursuant to Section 13389 of the California Water Code.
13. The Board has notified the discharger and interested agencies and persons of its intent to reissue waste discharge requirements for the discharge and has provided them with an opportunity for a public hearing and an opportunity to submit their written views and recommendations.
14. The Board, in a public meeting, heard and considered all comments pertaining to the discharge.

IT IS HEREBY ORDERED THAT Mare Island Naval Shipyard, in order to meet the provisions contained in Division 7 of the California Water Code and regulations adopted thereunder, and provisions of the Clean Water Act and regulations and guidelines adopted thereunder, shall comply with the following:

A. Discharge Prohibition

The bypassing of treatment facilities and discharge of untreated waste to waters of the State is prohibited.

B. Effluent Limitations

1. The wastewater as discharged through any of the seven discharge points to waters of the State from the disposal ponds shall not exceed the following limit:

<u>Constituent</u>	<u>Unit</u>	<u>Maximum</u>
Settleable Matter	ml/l-hr	1.0

2. The pH of the discharge shall not exceed 8.5 nor be less than 6.5.

C. Receiving Water Limitations

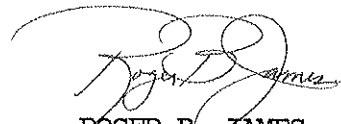
1. The discharge of waste shall not cause the following conditions to exist in waters of the State at any place:
 - a. Floating, suspended, or deposited macroscopic particulate matter or foam;
 - b. Bottom deposits or aquatic growths;
 - c. Alteration of temperature, turbidity, or apparent color beyond present natural background levels;
 - d. Visible, floating, suspended, or deposited oil or other products of petroleum origin;
 - e. Toxic or other deleterious substances to be present in concentrations or quantities which will cause deleterious effects on aquatic biota, wildlife, or waterfowl, or which render any of these unfit for human consumption either at levels created in the receiving waters or as a result of biological concentration.
2. The discharge shall not cause a violation of any applicable water quality standard for receiving waters adopted by the Board or the State Water Resources Control Board as required by the Clean Water Act and regulations adopted thereunder. If more stringent applicable water quality standards are promulgated or approved

pursuant to Section 303 of the Clean Water Act, or amendments thereto, the Board will revise and modify this Order in accordance with such more stringent standards.

D. Provisions

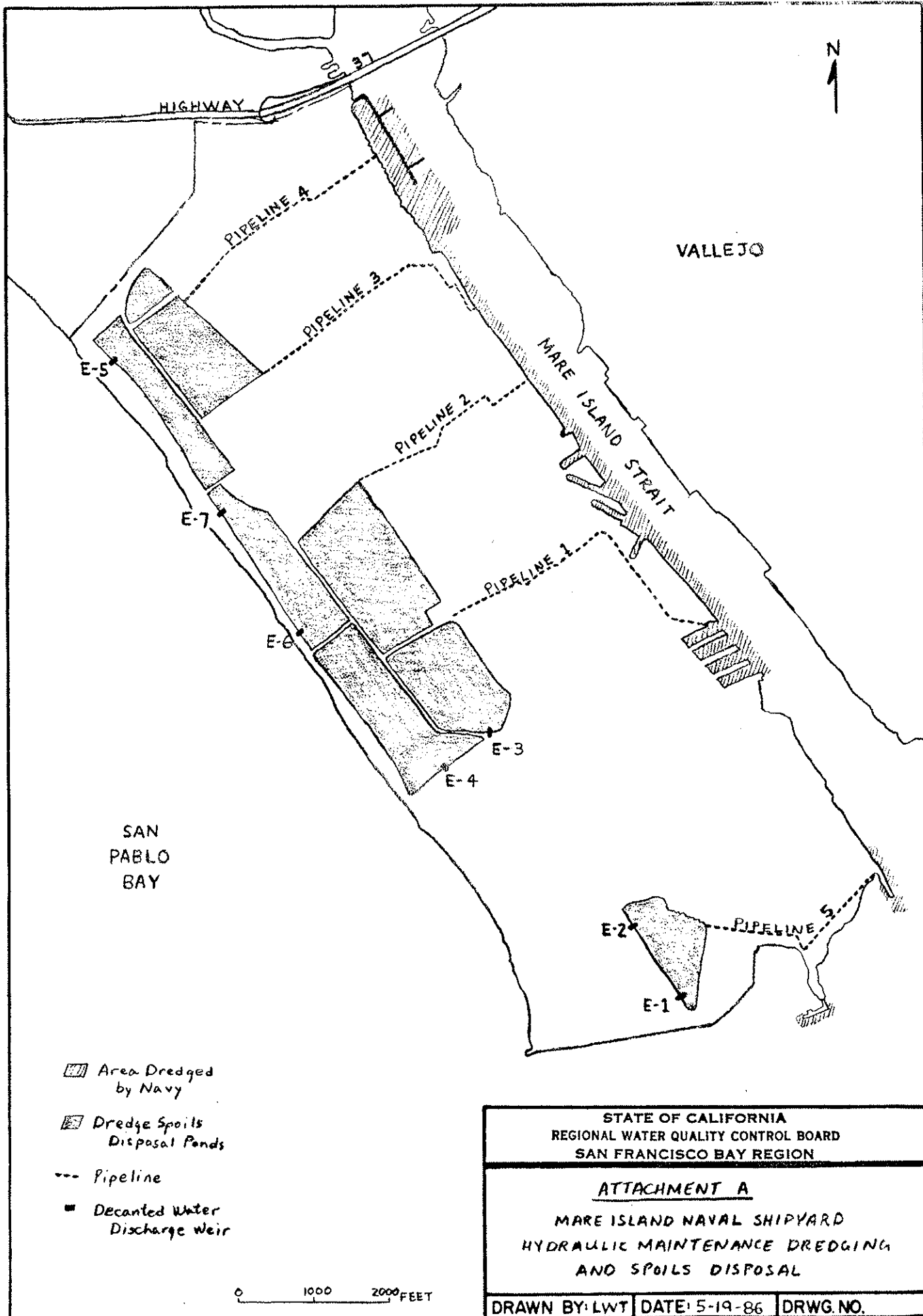
1. The requirements prescribed by this Order supersede the requirements prescribed by Order No. 78-37 adopted on June 20, 1978. Order No. 78-37 is hereby rescinded.
2. The discharger shall comply with all sections of this Order immediately upon adoption.
3. The discharger shall comply with the self-monitoring program as adopted by the Board and as may be amended by the Executive Officer.
4. The discharger shall comply with all items of the attached "Standard Provisions, Reporting Requirements and Definitions" dated April 1977, except items A.5, A.12, A.16, B.2, and B.5.
5. All applications, reports, or information submitted to the Regional Board shall be signed and certified pursuant to Environmental Protection Agency regulation (40 CFR 122.41K).
6. This order expires June 18, 1991. The discharger must file a report of waste discharge in accordance with Title 23, Chapter 3, Subchapter 9 of the California Administrative Code not later than 180 days in advance of such expiration date as application for issuance of new waste discharge requirements.
7. This Order shall serve as National Pollutant Discharge Elimination System Permit pursuant to Section 402 of the Clean Water Act or amendments thereto, and shall become effective 10 days after the date of its adoption provided the Regional Administrator, Environmental Protection Agency, has no objection. If the Regional Administrator objects to its issuance, the permit shall not become effective until such objection is withdrawn.

I, Roger B. James, Executive Officer do hereby certify the foregoing is a full, true and correct copy of an Order adopted by the California Regional Water Quality Control Board, San Francisco Bay Region on June 18, 1986.


ROGER B. JAMES
Executive Officer

Attachments:

Attachment A - Map
Standard Provisions & Reporting
Requirements, April 1977
Self Monitoring Program



CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

SELF-MONITORING PROGRAM
FOR

Mare Island Naval Shipyard
Hydraulic Maintenance Dredging and Spoils Disposal
Mare Island, Solano County

NPDES NO. CA 0029050

ORDER NO. 86-37

CONSISTS OF

PART A, dated January 1978

AND

PART B

PART B

I. DESCRIPTION OF SAMPLING STATIONS

A. Effluent

<u>Station</u>	<u>Description</u>
E-1 through E-7	The wastewater at each weir as shown in Attachment A, prior to discharge from the land disposal pond to the marsh adjacent to San Pablo Bay.

B. Receiving Waters

<u>Station</u>	<u>Description</u>
C-1	At a point located within 50 feet and under the influence of the discharge from E-1.
C-2	At a point located within 50 feet and under the influence of the discharge from E-2.
C-3	At a point located within 50 feet and under the influence of the discharge from E-3.
C-4	At a point located within 50 feet and under the influence of the discharge from E-4.
C-5	At a point located within 50 feet and under the influence of the discharge from E-5.
C-6	At a point located within 50 feet and under the influence of the discharge from E-6.
C-7	At a point located within 50 feet and under the influence of the discharge from E-7.

C. Land Observation

<u>Station</u>	<u>Description</u>
L-1 through L-'n'	Located along the perimeter levee of the land impoundment facility receiving dredge spoils at equidistant intervals not to exceed 300 feet (a sketch showing the locations of these stations shall accompany each report).

II. SCHEDULE OF SAMPLING AND ANALYSIS

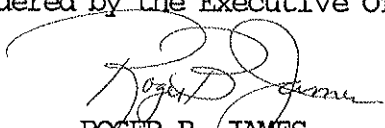
<u>Station</u>	<u>Type of Sample and Frequency</u>	<u>Analysis</u>	<u>Units</u>
E-1 through E-7	Grab samples collected once daily when discharging.	Settleable Matter pH	ml/l-hr units
E-1 through E-7	Composite samples composed of two grab samples taken at four hour intervals. The sample shall be taken and analyzed at seven day intervals when discharging.	Chromium Lead Mercury	mg/l mg/l mg/l
C-1 through C-7	Observations prior to and at the conclusion of each period of discharge.	All Standard Observations as defined in Part A, C.5.a.	
L-1 through L-'n'	Weekly observations starting from the time of disposal of dredge spoil to the ponds through to the end of discharge to the marsh from the disposal ponds.	All Standard Observations as defined in Part A, C.5.d.	

III. MODIFICATIONS OF PART A

Delete: C.3, C.4, and D.3.

I, Roger B. James, Executive Officer, hereby certify that the foregoing Self-Monitoring Program:

1. Has been developed in accordance with the procedure set forth in this Regional Board Resolution No. 73-16 in order to obtain data and document compliance with waste discharge requirements established in Regional Board Order No. 86-37.
2. Is effective on the date shown below.
3. May be reviewed at any time subsequent to the effective date upon written notice from the Executive Officer or request from the discharger and revisions will be ordered by the Executive Officer.


 ROGER B. JAMES
 Executive Officer

Effective Date JUNE 20, 1986

Attachment:

Attachment A - Location of Effluent Stations

